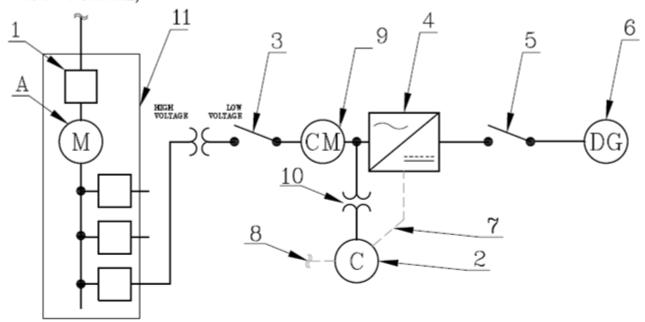


Sketch #59b Inverter-based renewable generation for 12kV Switchgear installations

Voltage:	Service Type:
1 Phase, 7200V	Overhead / Underground
3 Phase, 4 Wire WYE 7200/12,240V	
Customer Load:	Meter Base Location:
11 MVA maximum	Outdoor

PPL EU SERVICE (POINT OF CONTACT 12KV NOMINAL)



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Sketch #59b Inverter-based renewable generation for 12kv switchgear installation (cont.)

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

- 1. FAULT INTERRUPTING DEVICE CAN BE CIRCUIT BREAKER OR FUSE.
- 3. AC DISCONNECT SWITCH (REQUIRED IF NOT WITHIN INVERTER)
- 4. INVERTER(S) (INCLUDES METERING AND COMMUNICATION FEATURES), INVERTER SHALL BE LABELED AS IEEE 1547/UL 1741 LISTED.
- 5. DC DISCONNECT
- 6. DISTRIBUTED GENERATOR (DG) SOURCE
- 9. CUSTOMER METER (OPTIONAL)
- 11. 15KV SWITCHGEAR

PPL EU FURNISHES, MAINTAINS:

- 2. ConnectDER[™] COLLAR ("SMART" VERSION) WITH 120/240 VAC. ADDITIONAL CONTROL POWER TRANSFORMER MAY BE REQUIRED (10).
- 7. COMMUNICATION TRANSMISSION BETWEEN COLLAR AND INVERTER (FOR "SMART" VERSION)
- 8. COMMUNICATION TRANSMISSION BETWEEN COLLAR AND AMI PPL EU (FOR "SMART" VERSION) OR CELLULAR
- 10. ConnectDER™ POWER TRANSFORMER IF REQUIRED

NOTES:

- A. METERING EQUIPMENT. SEE APPROPRIATE SKETCH FOR SERVICE TYPE AND SIZE TO DETERMINE METERING RESPONSIBILITIES. FOREIGN ENERGY SOURCES SHALL NOT BE CONNECTED DIRECTLY TO METERING EQUIPMENT. SEE RULE 12.
- B. SEE PPL EU CUSTOMER-OWNED GENERATION WEBSITE FOR MORE INFORMATION.
- C. APPLICATION FOR CUSTOMER-OWNED, INVERTER-BASED RENEWABLE GENERATION MUST BE COMPLETED. SEE CUSTOMER-OWNED GENERATION APPLICATIONS.
- D. PPL EU REQUIRES AN INDEPENDENT ELECTRICAL INSPECTION. THE INSPECTOR IS REQUIRED TO VERIFY THE IEEE/UL LISTING OF THE INVERTER.

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Sketch #59b Inverter-based renewable generation for 12kv switchgear installation (cont.)

- E. INSTALLATION MUST ADHERE TO REQUIREMENTS OF NATIONAL ELECTRICAL CODE ARTICLE 690 AND ARTICLE 705.
- F. ALL LABELING MUST BE IN ACCORDANCE WITH NEC ARTICLE 690.
- G. IN ADDITION TO NOTE E, PPL EU WILL INSTALL PERMANENT LABELING ON THE METER BASE (PPL EU CATALOG CID 1012171) AND PAD MOUNT TRANSFORMER (CID 1012171) OR POLE MOUNT TRANSFORMER (CID 1013816) UPON RECEIPT OF INSPECTION.
- H. IF A NEUTRAL CONNECTION EXISTS AT THE INVERTER, THE INVERTER NEUTRAL SHALL BE CONNECTED TO THE SERVICE NEUTRAL.
- I. CUSTOMER SHALL CONTACT PPL EU PRIOR TO ANY NEW INSTALLATIONS DEPICTED IN THIS SKETCH.
- J. PPL REQUIRES A LOCAL RS-485 OR ETHERNET COMMUNICATION INTERFACE, ALSO REFERRED TO AS A COMMUNICATION PORT, TO BE OPEN AND ACCESSIBLE FOR THE COMPANY OWNED DER MANAGEMENT DEVICE (IEEE 1547-2018, SEC. 10.1,4).
- K. INSTALLATIONS WITH MULTIPLE INVERTERS SHALL BE NETWORKED TOGETHER BY THE CUSTOMER PER MANUFACTURER GUIDELINES OR RS-485 MULTIDROP NETWORKING. A COMMUNICATION NETWORK DIAGRAM DEPICTING PORT AVAILABILITY AND NETWORKING DESIGN SHALL BE INCLUDED WITH THE SYSTEM'S INTERCONNECTION APPLICATION.
- L. FOR INVERTERS WHERE AN ADDITIONAL MODULE OR KIT IS REQUIRED TO MAKE THE COMMUNICATION INTERFACE/PORT AVAILABLE, THE MODULE OR KIT MUST BE INCLUDED AS PART OF THE INSTALLED SYSTEM. REFERENCE PPL'S APPROVED SOLAR INVERTER LIST FOR SPECIFIC INFORMATION.

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